

Title (en)
SWITCHING POWER SUPPLY WITH A PROGRESSIVE START

Publication
EP 0331592 B1 19921223 (FR)

Application
EP 89420076 A 19890228

Priority
FR 8803079 A 19880304

Abstract (en)
[origin: EP0331592A1] The invention relates to the field of switchable power supplies controlled with modulated width pulses obtained by comparison between a saw tooth voltage (15) oscillating between first and second levels, and a control voltage (19), in which the control voltage is initially fixed at a value outside the range of oscillation of the saw tooth, and then, in a first phase varies to the first level (idling time) and in a second phase varies from the first to the second level to produce gradually increasing width control pulses. The invention provides means (45, 50) for ensuring the variation of the control voltage during the first phase in accordance with a first slope, then the variation of this control voltage during the second phase in accordance with a second slope which is smaller than the first, and means (60) for ensuring slope switching following detection of the first control pulse. <IMAGE>

IPC 1-7
H02M 3/335; H04N 3/185

IPC 8 full level
H02M 1/00 (2006.01); **H02M 1/36** (2007.01); **H02M 3/28** (2006.01); **H04N 3/185** (2006.01)

CPC (source: EP KR US)
H02M 1/36 (2013.01 - EP US); **H02M 7/537** (2013.01 - KR); **H04N 3/185** (2013.01 - EP US); **Y10S 323/901** (2013.01 - EP US)

Cited by
EP1178592A1; US5041956A

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
EP 0331592 A1 19890906; EP 0331592 B1 19921223; DE 68903968 D1 19930204; DE 68903968 T2 19930506; FR 2628269 A1 19890908; FR 2628269 B1 19900727; JP 2731577 B2 19980325; JP H01268454 A 19891026; KR 890015492 A 19891030; US 5084811 A 19920128

DOCDB simple family (application)
EP 89420076 A 19890228; DE 68903968 T 19890228; FR 8803079 A 19880304; JP 5181989 A 19890303; KR 890002666 A 19890303; US 31858989 A 19890303